



DECEMBER 2016 LOCAL CLIMATOLOGICAL DATA

NOAA, National Centers for Environmental Information

OAK RIDGE, TN
OAK RIDGE (KOQT)

Lat:36° 1'N Long: 84° 14'W Elev (Ground) 910 Feet

Time Zone : EASTERN

WBAN: 53868 ISSN#: 0198-487X



Date 1	Temperature °F						Deg Days BASE 65°		WEATHER 10	SNOW/ICE ON GND(IN)		PRECIPITATION ON GND(IN)		PRESSURE (INCHES OF HG)		WIND SPEED = MPH DIR = TENS OF DEGREES								Date 24					
	MAXIMUM 2	MINIMUM 3	AVERAGE 4	DEP FROM NORMAL 5	AVERAGE DEW PT 6	AVERAGE WET BULB 7	HEATING 8	COOLING 9		LST 11	LST 12	LST 13	LST 14	AVERAGE STATION 15	AVERAGE SEA LEVEL 16	RESULTANT SPEED 17	RES DIR 18	AVERAGE SPEED 19	MAXIMUM										
																			3-SEC		2-MIN								
																			SPEED 20	DIR 21	SPEED 22	DIR 23							
01	54	35	45	2	30	39	20	0				0.00	29.02	30.03	1.7	25	2.9	16	26	12	25	01							
02	58	30	44	1	29	36	21	0				0.00	29.23	30.26	0.3	23	0.8	13	26	9	26	02							
03	46	34	40	-2	31	37	25	0	RA			0.02	29.32	30.33	1.5	06	2.3	14	08	10	07	03							
04	47	40	44	2	40	42	21	0	RA BR			1.11	29.15	30.12	0.5	05	2.4	14	26	9	26	04							
05	52	45	49	7	45	48	16	0	RA BR			0.01	29.03	30.00	1.7	07	3.2	14	07	9	07	05							
06	55	42	49	8	48	49	16	0	RA BR			1.82	28.81	29.80	0.6	26	2.4	15	22	9	23	06							
07	56	38	47	6	36	41	18	0	BR			0.00	29.10	30.10	0.4	06	2.0	14	06	10	07	07							
08	47	30	39	-2	18	32	26	0				0.00	29.31	30.32	2.6	31	3.9	20	30	12	28	08							
09	37	25	31	-10	15	25	34	0				0.00	29.52	30.56	1.2	04	2.8	13	35	8	07	09							
10	41	18*	30	-10	16	24	35	0				0.00	29.53	30.57	0.1	14	0.3	9	19	7	08	10							
11	53	22	38	-2	26	34	27	0				T	29.28	30.30	1.8	21	3.1	27	20	17	20	11							
12	59	37	48	8	43	45	17	0	RA BR			1.26	29.08	30.08	1.6	25	3.4	28	28	16	28	12							
13	46	36	41	1	40	42	24	0	RA BR			0.06	29.09	30.09	0.4	10	0.7	9	05	6	06	13							
14	47	32	40	0	32	36	25	0				0.00	29.18	30.19	0.3	06	1.6	12	06	9	07	14							
15	36	22	29	-10	6	23	36	0				0.00	29.34	30.40	1.1	36	4.4	18	01	12	33	15							
16	36	21	29*	-10	9	23	36	0				0.00	29.29	30.30	0.7	07	1.5	11	07	7	07	16							
17	52	36	44	5	39	42	21	0	RA BR			0.28	28.99	29.98	2.4	24	4.9	19	26	13	25	17							
18	70	28	49	10	36	39	16	0	RA BR			1.08	29.15	30.22	2.8	22	6.4	43*	20	26*	20	18							
19	38	26	32	-7	23	28	33	0				0.00	29.59	30.64	0.6	08	3.2	16	36	9	07	19							
20	39	26	33	-5	27	30	32	0	FZFG BR			0.00	29.49	30.51	0.4	29	1.0	10	29	7	29	20							
21	47	26	37	-1	30	34	28	0	FG+ FZFG BR			0.00	29.32	30.33	0.3	11	0.9	7	14	5	22	21							
22	59	36	48	10	30	39	17	0				0.00	29.26	30.29	0.6	33	3.2	17	36	12	35	22							
23	57	35	46	8	28	39	19	0				0.00	29.36	30.35	0.7	09	3.1	14	05	10	06	23							
24	53	47	50	12	44	47	15	0	RA BR			0.63	29.28	30.27	1.7	24	2.3	12	26	8	25	24							
25	70*	51	61*	23	53	55	4	0	RA BR			0.11	29.36	30.34	0.2	21	0.5	8	26	6	25	25							
26	65	50	58	21	53	55	7	0	FG+ FG BR			0.00	29.37	30.34	1.9	25	2.4	17	27	9	24	26							
27	63	38	51	14	46	51	14	0	RA BR			0.43	29.21	30.19	2.4	26	3.9	23	28	13	28	27							
28	58	31	45	8	32	39	20	0	RA BR			0.29	29.18	30.15	0.3	22	1.2	10	07	8	08	28							
29	54	41	48	11	29	40	17	0	RA BR			0.23	29.02	30.03	6.5	27	8.0	34	28	20	26	29							
30	47	30	39	2	16	31	26	0				0.00	29.19	30.21	2.9	28	5.4	32	33	18	30	30							
31	44	27	36	-1	25	32	29	0	RA BR			0.13	29.14	30.14	1.4	24	3.3	20	24	13	23	31							
51.2		33.4		42.3		31.5		38.0		22.4		0.0		< MONTHLY AVERAGES TOTALS >		7.46		29.23		30.24		0.7		26		2.8		< MONTHLY AVERAGES	
1.6		2.3		2.0		X		<-----DEPARTURE FROM NORMAL ----->				2.60		SUNSHINE, CLOUD, & VISIBILITY TABLES ON PAGE 3															
DEGREE DAYS								GREATEST 24-HR PRECIPITATION : 1.82 DATE : 06				SEA LEVEL PRESSURE				DATE TIME													
MONTHLY				SEASON TO DATE				GREATEST 24-HR SNOWFALL :				MAXIMUM : 30.70 19 1107																	
TOTAL DEPARTURE				TOTAL DEPARTURE				GREATEST SNOW DEPTH :				MINIMUM : 29.68 06 0753																	
HEATING :		695		-69		1108		-359		NUMBER OF -> DAYS WITH		MAXIMUM TEMP >= 90 : 0		MINIMUM TEMP <= 32 : 15		PRECIPITATION >= 0.01 INCH: 14													
COOLING :		0		0		2128		646				MAXIMUM TEMP <= 32 : 0		MINIMUM TEMP <= 0 : 0		PRECIPITATION >= 0.10 INCH: 11													
												THUNDERSTORMS : 0		HEAVY FOG : 2		SNOWFALL >= 1.0 INCH :													

DECEMBER 2016
OAK RIDGE, TN

HOURLY PRECIPITATION

(WATER EQUIVALENT IN INCHES)

OAK RIDGE, TN (KOQT)
DECEMBER 2016

WBAN # 53868

Date	FOR HOUR (LST) ENDING AT												Date	FOR HOUR (LST) ENDING AT												Date	Sum of Hourly Data	2400 LST Water Equiv.	
	1	2	3	4	5	6	7	8	9	10	11	12		13	14	15	16	17	18	19	20	21	22	23	24				
01													01												01	0.00	0.00		
02													02												02	0.00	0.00		
03													03												03	0.02	0.02		
04	0.02	0.05	0.03	0.06	0.06	0.10	0.11	0.07	0.01	0.03	0.01	0.08	04	0.29	0.10	0.03	0.02	0.02	T	0.01				04	1.11	1.11			
05	T	0.01											05				T	T	T		0.01			05	0.01	0.01			
06	T	T	0.03	0.06	0.08	0.34	0.17	0.19	0.37	0.12	0.07	0.32	06	0.04	0.01	T		T	0.01	0.01				06	1.82	1.82			
07													07												07	0.00	0.00		
08													08												08	0.00	0.00		
09													09												09	0.00	0.00		
10													10												10	0.00	0.00		
11													11												11	T	T		
12	0.01	0.02	0.01	0.33	0.41	0.27	0.14	0.05	0.02		T		12											T	12	1.26	1.26		
13													13	T	0.01	T	T	0.03	0.01						13	0.06	0.06		
14													14												14	0.00	0.00		
15													15												15	0.00	0.00		
16													16												16	0.00	0.00		
17						0.05	0.08	0.05	0.04	0.01			17												17	0.28	0.28		
18		T	0.01			0.43	0.10	0.09	0.23	0.09	0.05	0.07	18	0.01					T	T	0.01	0.04	T		18	1.08	1.08		
19													19												19	0.00	0.00		
20													20												20	0.00	0.00		
21													21												21	0.00	0.00		
22													22												22	0.00	0.00		
23													23												23	0.00	0.00		
24					0.06	0.15	0.15	0.11	T	0.03	0.03	T	24	0.02	T	0.01	0.01	0.01	T				T	0.01	0.02	0.01	0.01	0.63	0.63
25	0.01	0.06	0.01	T	0.03	T							25												25	0.11	0.11		
26													26												26	0.00	0.00		
27				0.01	T	0.05	0.11	0.23	0.01	0.02	T		27												27	0.43	0.43		
28													28												28	0.29	0.29		
29	0.06	0.16	0.01										29												29	0.23	0.23		
30													30												30	0.00	0.00		
31											T		31	T	0.01	T	T	T	T					31	0.12*	0.13			

* Indicates sum of Hourly and Daily disagree.

MAXIMUM SHORT DURATION PRECIPITATION (See Note)

Time Period (Minutes)	5	10	15	20	30	45	60	80	100	120	150	180
Precipitation (Inches)	0.25	0.32	0.35	0.36	0.37	0.40	0.44	0.56	0.69	0.79	0.91	1.02
Ending Date	18	18	18	18	18	18	18	12	12	12	12	12
Ending Time (Hr/Min)	0509	0514	0516	0520	0526	0545	0602	0504	0504	0521	0552	0608

Note : The hourly and daily precipitation totals are printed in the last 2 columns and hi-lighted in red when they disagree. NWS does not edit ASOS hourly values but may edit daily and monthly totals. Hourly, daily, and monthly totals are printed as reported by the ASOS site.

Date and time are not entered for TRACE amounts.

REFERENCE NOTES & SUPPLEMENTAL SUMMARIES

* = Extreme for the month (last occurrence if more than one).

T = Trace precipitation amount.

+ = also occurs on earlier date.

FG+ = Heavy fog, visibility .25 miles or less.

BLANK entries denote missing or unreported data.

Resultant wind is the vector sum of the wind speeds and directions divided by the number of observations.

Wind direction is recorded in tens of degrees (2 digits) clockwise from true north. '00' = calm, 'VR' = variable.

Precipitation is for the 24-hour period ending at the time indicated in the column heading.

Ceilometer (30-second) data are used to derive cloudiness at or below 12,000 feet. This cloudiness is the mean cloud cover detected during sunrise to sunset (SR-SS), or midnight to midnight (MN-MN).

WEATHER NOTATIONS

QUALIFIER	WEATHER PHENOMENA		
DESCRIPTOR	PRECIPITATION	OBSCURATION	OTHER
BC Patches	DZ Drizzle	BR Mist	DS Duststorm
BL Blowing	GR Hail	DU Widespread Dust	FC Funnel Cloud
DR Low Drifting	GS Small Hail and/or Snow Pellets	FG Fog	+FC Tornado Waterspout
FZ Freezing	IC Ice Crystals	FU Smoke	PO Well-Developed Dust/Sand Whirls
MI Shallow	PL Ice Pellets	HZ Haze	
PR Partial	RA Rain	PY Spray	SQ Squalls
SH Shower(s)	SG Snow Grains	SA Sand	SS Sandstorm
TS Thunderstorm	SN Snow	VA Volcanic Ash	
VC In the Vicinity	UP Unkown Precipitation		GL Glaze

Intensity (as indicated on pages 4 to 6):
'+' = Heavy '' = Moderate '.' = Light

OAK RIDGE, TN DECEMBER 2016

Sky Condition is based on the sum (not to exceed 8) of the sunrise to sunset cloud cover below and above 12,000 feet.

Clear = 0-2 oktas, Partly Cloudy = 3-6 oktas, Cloudy = 7-8 oktas.

A Heating (Cooling) Degree Day is the difference between the average daily temperature and 65 degrees F. The HDD season begins July 1, the CDD season begins January 1.

Snow Depth, Snowfall, and Sunshine data may come from nearby sites that the National Weather Service deems Climatologically representative of this site.

NORMALS ARE FOR THE YEARS 1981-2010

ADDITIONAL NOTES & ERRATA:

Station Augmentation-OAK RIDGE ATDD, TN
Lat/Lon:35.998/-84.2192 Elevation:1019ft
Distance:1.5mi Dir:SW
Augmented Elements:TEMP, PRECIP, SNOW
Equipment:PRECIP-MODEL TRP525M, TEMP-VAISALA HMP 35C, SNOWBOARD, SNOWSTICK

Date	VISIBILITY (MILES)	
	MINIMUM	MAXIMUM
01	10.00	10.00
02	10.00	10.00
03	9.00	10.00
04	0.75	9.00
05	2.00	10.00
06	0.75	10.00
07	7.00	10.00
08	10.00	10.00
09	10.00	10.00
10	10.00	10.00
11	10.00	10.00
12	1.75	10.00
13	1.25	10.00
14	9.00	10.00
15	9.00	10.00
16	10.00	10.00
17	1.25	10.00
18	1.75	10.00
19	10.00	10.00
20	4.00	10.00
21	0.25	10.00
22	10.00	10.00
23	10.00	10.00
24	1.25	10.00
25	0.75	10.00
26	0.25	10.00
27	2.00	10.00
28	0.75	10.00
29	4.00	10.00
30	10.00	10.00
31	4.00	10.00
AVGS	5.51	9.97
MINIMUM VISIBILITY (MILES)		
<= .25	<= 3.0	>= 7.0
2	13	15

OBSERVATIONS AT 3-HOURLY INTERVALS

OAK RIDGE, TN DECEMBER 2016 KOQT

WBAN # 53868

HOUR (LST)	SKY COVER	CEILING 100's of FT.	VISIBILITY (MILES)	WEATHER	TEMPERATURE °F			RELATIVE HUMIDITY (PCT)	WIND		PRESSURE (INCHES, HG)		HOUR (LST)	SKY COVER	CEILING 100's of FT.	VISIBILITY (MILES)	WEATHER	TEMPERATURE °F			RELATIVE HUMIDITY (PCT)	WIND		PRESSURE (INCHES, HG)	
					DRY BULB	DEW POINT	WET BULB		SPEED (MPH)	DIRECTION Tens of Deg	STATION	SEA LEVEL						DRY BULB	DEW POINT	WET BULB		SPEED (MPH)	DIRECTION Tens of Deg	STATION	SEA LEVEL
SUNRISE: 0729 DEC 01					SUNSET: 1723					SUNRISE: 0734 DEC 07					SUNSET: 1723										
01	CLR	NC	10.00		47	34	41	61	3	VR	28.95	29.91	01	CLR	NC	7.00		40	37	39	89	0	00	29.06	30.04
04	CLR	NC	10.00		42	34	39	73	0	00	28.99	29.96	04	OVC	026	10.00		42	37	40	82	0	00	29.10	30.08
07	CLR	NC	10.00		41	31	37	67	3	VR	29.03	30.01	07	OVC	027	10.00		43	35	40	74	3	VR	29.12	30.10
10	OVC	032	10.00		44	31	39	60	6	26	29.08	30.06	10	CLR	NC	10.00		46	36	42	68	3	VR	29.13	30.13
13	CLR	NC	10.00		50	29	41	44	6	23	29.05	30.03	13	CLR	NC	10.00		54	36	46	51	5	VR	29.09	30.08
16	CLR	NC	10.00		52	26	41	37	8	26	29.05	30.03	16	CLR	NC	10.00		53	36	45	52	6	VR	29.08	30.06
19	CLR	NC	10.00		46	27	38	47	3	23	29.08	30.07	19	CLR	NC	10.00		44	35	40	71	5	07	29.13	30.13
22	CLR	NC	10.00		39	30	35	70	3	20	29.12	30.12	22	OVC	041	10.00		42	36	39	79	0	00	29.15	30.16
SUNRISE: 0730 DEC 02					SUNSET: 1723					SUNRISE: 0735 DEC 08					SUNSET: 1723										
01	CLR	NC	10.00		35	29	33	78	0	00	29.14	30.14	01	OVC	110	10.00		42	37	40	82	0	00	29.15	30.14
04	CLR	NC	10.00		32	28	30	85	0	00	29.19	30.19	04	OVC	080	10.00		42	26	36	53	3	01	29.21	30.20
07	CLR	NC	10.00		30	26	29	85	0	00	29.24	30.25	07	FEW	080	10.00		39	18	32	43	9	35	29.27	30.28
10	CLR	NC	10.00		40	29	36	65	0	00	29.28	30.29	10	CLR	NC	10.00		40	18	32	41	0	00	29.34	30.35
13	CLR	NC	10.00		53	29	43	40	6	20	29.26	30.26	13	CLR	NC	10.00		44	16	34	32	6	VR	29.32	30.32
16	CLR	NC	10.00		57	28	44	33	0	00	29.23	30.23	16	CLR	NC	10.00		44	11	33	26	10	28	29.33	30.33
19	CLR	NC	10.00		47	30	40	52	0	00	29.27	30.29	19	CLR	NC	10.00		38	14	30	37	5	28	29.38	30.39
22	CLR	NC	10.00		42	31	37	65	0	00	29.31	30.32	22	CLR	NC	10.00		32	16	27	52	3	VR	29.42	30.45
SUNRISE: 0731 DEC 03					SUNSET: 1723					SUNRISE: 0736 DEC 09					SUNSET: 1723										
01	CLR	NC	10.00		39	30	35	70	0	00	29.33	30.32	01	CLR	NC	10.00		28	15	24	58	0	00	29.45	30.47
04	CLR	NC	10.00		39	29	35	67	0	00	29.33	30.32	04	CLR	NC	10.00		27	14	23	58	5	33	29.49	30.51
07	CLR	NC	10.00		36	28	33	73	0	00	29.35	30.36	07	CLR	NC	10.00		26	14	22	60	5	35	29.52	30.55
10	CLR	NC	10.00		41	30	37	65	3	05	29.38	30.38	10	BKN	031	10.00		28	13	23	53	3	34	29.57	30.61
13	CLR	NC	10.00		45	30	39	56	6	05	29.33	30.33	13	CLR	NC	10.00		35	14	28	42	3	VR	29.53	30.57
16	OVC	110	10.00		45	30	39	56	5	VR	29.31	30.32	16	CLR	NC	10.00		36	14	29	40	5	08	29.50	30.54
19	BKN	110	10.00		44	31	39	60	0	00	29.29	30.30	19	CLR	NC	10.00		30	17	26	58	0	00	29.53	30.58
22	OVC	065	10.00	-RA	43	34	39	71	0	00	29.30	30.30	22	CLR	NC	10.00		28	16	24	60	0	00	29.54	30.59
SUNRISE: 0731 DEC 04					SUNSET: 1723					SUNRISE: 0736 DEC 10					SUNSET: 1723										
01	OVC	065	7.00	-RA	41	37	39	86	0	00	29.26	30.27	01	CLR	NC	10.00		24	17	22	75	0	00	29.55	30.59
04	OVC	048	5.00	-RA BR	40	37	39	89	0	00	29.24	30.24	04	CLR	NC	10.00		21	16	20	81	0	00	29.56	30.60
07	OVC	050	4.00	RA BR	40	38	39	93	3	05	29.21	30.21	07	CLR	NC	10.00		19	14	18	81	0	00	29.59	30.64
10	OVC	037	5.00	-RA BR	41	39	40	93	5	06	29.17	30.18	10	CLR	NC	10.00		27	19	24	72	0	00	29.62	30.67
13	OVC	030	0.75	RA BR	42	40	41	92	0	00	29.10	30.11	13	CLR	NC	10.00		36	14	29	40	5	VR	29.55	30.59
16	OVC	021	4.00	-RA BR	44	42	43	93	0	00	29.03	30.02	16	CLR	NC	10.00		39	11	30	31	0	00	29.48	30.52
19	OVC	011	6.00	BR	45	43	44	93	0	00	29.02	30.01	19	CLR	NC	10.00		31	16	26	54	0	00	29.49	30.53
22	OVC	005	9.00		46	44	45	93	6	VR	29.05	30.04	22	CLR	NC	10.00		27	19	24	72	0	00	29.46	30.50
SUNRISE: 0732 DEC 05					SUNSET: 1723					SUNRISE: 0737 DEC 11					SUNSET: 1723										
01	OVC	019	6.00	BR	47	45	46	93	3	25	29.06	30.05	01	CLR	NC	10.00		26	19	24	75	0	00	29.44	30.47
04	OVC	007	10.00		48	45	47	89	3	22	29.07	30.05	04	CLR	NC	10.00		23	19	22	85	0	00	29.41	30.44
07	OVC	005	3.00	BR	48	46	47	93	0	00	29.07	30.06	07	CLR	NC	10.00		23	18	21	81	0	00	29.38	30.42
10	OVC	030	10.00		50	47	48	89	6	06	29.09	30.07	10	CLR	NC	10.00		33	22	29	64	0	00	29.40	30.43
13	OVC	015	10.00		51	44	48	77	5	07	29.05	30.02	13	CLR	NC	10.00		49	22	38	35	5	VR	29.30	30.31
16	OVC	110	10.00		52	45	48	77	3	VR	29.00	29.98	16	SCT	035	10.00		53	33	44	47	7	VR	29.20	30.21
19	OVC	110	10.00	-RA	50	46	48	86	0	00	28.98	29.96	19	CLR	NC	10.00		47	34	41	61	0	00	29.15	30.17
22	OVC	033	10.00		51	45	48	80	0	00	28.90	29.88	22	OVC	030	10.00		47	36	42	66	5	22	29.10	30.11
SUNRISE: 0733 DEC 06					SUNSET: 1723					SUNRISE: 0738 DEC 12					SUNSET: 1723										
01	OVC	050	10.00		50	45	48	83	0	00	28.85	29.83	01	OVC	028	8.00	-RA	45	39	42	80	3	VR	29.07	30.05
04	OVC	055	6.00	RA BR	50	47	48	89	0	00	28.83	29.81	04	OVC	024	1.75	+RA BR	45	42	44	90	10	26	29.04	30.01
07	OVC	039	3.00	RA BR	51	49	50	92	0	00	28.77	29.73	07	OVC	007	2.50	RA BR	46	44	45	93	3	26	29.03	30.01
10	OVC	043	5.00	-RA BR	52	49	50	89	5	08	28.74	29.70	10	OVC	005	8.00		48	45	47	89	0	00	29.08	30.06
13	OVC	075	6.00	-RA BR	53	49	51	86	0	00	28.74	29.70	13	OVC	007	10.00		53	49	51	86	5	23	29.09	30.07
16	OVC	006	4.00	BR	54	52	53	93	5	23	28.78	29.75	16	CLR	NC	10.00		57	44	50	62	5	VR	29.09	30.07
19	OVC	047	10.00		53	49	51	86	8	27	28.90	29.87	19	CLR	NC	10.00		46	41	44	83	0	00	29.14	30.13
22	CLR	NC	10.00		47	42	45	83	3	VR	29.01	29.98	22	CLR	NC	9.00		40	37	39	89	0	00	29.15	30.16

OBSERVATIONS AT 3-HOURLY INTERVALS

OAK RIDGE, TN

DECEMBER 2016 KOQT

WBAN # 53868

HOUR (LST)	SKY COVER	CEILING 100's of FT.	VISIBILITY (MILES)	WEATHER	TEMPERATURE °F			RELATIVE HUMIDITY (PCT)	WIND		PRESSURE (INCHES, HG)		HOUR (LST)	SKY COVER	CEILING 100's of FT.	VISIBILITY (MILES)	WEATHER	TEMPERATURE °F			RELATIVE HUMIDITY (PCT)	WIND		PRESSURE (INCHES, HG)	
					DRY BULB	DEW POINT	WET BULB		SPEED (MPH)	DIRECTION Tens of Deg	STATION	SEA LEVEL						DRY BULB	DEW POINT	WET BULB		SPEED (MPH)	DIRECTION Tens of Deg	STATION	SEA LEVEL
SUNRISE: 0739 DEC 13					SUNSET: 1724					SUNRISE: 0742 DEC 19					SUNSET: 1726										
01	SCT	002	5.00	BR	37	34	36	89	0	00	29.15	30.15	01	OVC	018	10.00		28	20	25	72	7	VR	29.53	30.57
04	CLR	NC	7.00		39	36	38	89	0	00	29.13	30.12	04	OVC	023	10.00		29	21	26	72	6	VR	29.58	30.63
07	CLR	NC	7.00		40	37	39	89	3	08	29.10	30.09	07	OVC	021	10.00		29	21	26	72	5	VR	29.61	30.65
10	OVC	045	10.00		43	40	42	89	0	00	29.10	30.11	10	OVC	021	10.00		32	23	29	69	0	00	29.64	30.68
13	OVC	028	10.00		45	42	44	90	0	00	29.06	30.05	13	OVC	020	10.00		34	24	30	67	5	VR	29.62	30.66
16	OVC	016	4.00	BR	45	43	44	93	0	00	29.03	30.03	16	FEW	023	10.00		36	24	32	62	3	VR	29.60	30.63
19	OVC	006	6.00	BR	45	43	44	93	0	00	29.07	30.06	19	CLR	NC	10.00		31	24	29	76	0	00	29.61	30.66
22	OVC	014	10.00		45	43	44	93	0	00	29.10	30.10	22	CLR	NC	10.00		28	23	26	81	0	00	29.59	30.63
SUNRISE: 0739 DEC 14					SUNSET: 1724					SUNRISE: 0743 DEC 20					SUNSET: 1726										
01	OVC	019	10.00		42	36	39	79	5	VR	29.16	30.16	01	BKN	017	10.00		27	23	26	85	0	00	29.57	30.60
04	CLR	NC	10.00		37	32	35	82	0	00	29.18	30.19	04	OVC	011	10.00		32	27	30	82	0	00	29.54	30.57
07	CLR	NC	10.00		35	31	33	85	0	00	29.21	30.22	07	OVC	011	10.00		32	27	30	82	0	00	29.55	30.59
10	CLR	NC	10.00		41	33	38	73	7	06	29.25	30.25	10	OVC	011	10.00		33	29	31	85	0	00	29.55	30.59
13	CLR	NC	10.00		45	33	40	63	3	VR	29.19	30.19	13	OVC	012	10.00		36	29	33	76	5	VR	29.48	30.51
16	CLR	NC	10.00		46	33	40	61	0	00	29.13	30.12	16	OVC	017	10.00		38	28	34	68	6	29	29.43	30.45
19	CLR	NC	10.00		37	33	35	86	0	00	29.13	30.14	19	CLR	NC	10.00		31	27	30	85	0	00	29.41	30.44
22	CLR	NC	10.00		38	32	36	79	3	26	29.18	30.19	22	CLR	NC	7.00		28	24	27	85	0	00	29.38	30.41
SUNRISE: 0740 DEC 15					SUNSET: 1724					SUNRISE: 0744 DEC 21					SUNSET: 1726										
01	BKN	120	9.00		35	31	33	85	0	00	29.23	30.24	01	BKN	002	7.00		26	22	25	84	0	00	29.37	30.40
04	FEW	029	10.00		34	21	29	59	7	33	29.26	30.27	04	VV	002	0.50	FZFG	27	25	26	92	0	00	29.36	30.39
07	CLR	NC	10.00		27	9	22	46	6	VR	29.34	30.37	07	VV	002	0.75	BR	30	27	29	88	3	06	29.36	30.39
10	CLR	NC	10.00		28	7	22	41	5	VR	29.42	30.45	10	OVC	002	1.50	BR	31	29	30	92	0	00	29.37	30.40
13	CLR	NC	10.00		30	-1	22	26	5	VR	29.42	30.44	13	OVC	006	10.00		36	32	34	86	3	08	29.31	30.34
16	CLR	NC	10.00		32	-5	23	20	5	VR	29.40	30.43	16	CLR	NC	10.00		46	32	40	58	0	00	29.25	30.26
19	CLR	NC	10.00		27	-2	20	28	6	05	29.42	30.46	19	OVC	065	10.00		44	34	40	68	0	00	29.25	30.27
22	CLR	NC	10.00		23	-0	18	36	3	VR	29.40	30.44	22	OVC	075	10.00		43	35	40	74	0	00	29.24	30.26
SUNRISE: 0741 DEC 16					SUNSET: 1724					SUNRISE: 0744 DEC 22					SUNSET: 1727										
01	CLR	NC	10.00		22	3	17	44	3	06	29.38	30.42	01	OVC	065	10.00		42	34	39	73	0	00	29.20	30.21
04	CLR	NC	10.00		22	3	17	44	0	00	29.36	30.40	04	OVC	060	10.00		40	35	38	83	0	00	29.19	30.19
07	OVC	080	10.00		23	6	19	48	0	00	29.36	30.40	07	BKN	055	10.00		43	32	38	65	5	24	29.22	30.22
10	OVC	070	10.00		26	6	21	42	3	07	29.37	30.41	10	CLR	NC	10.00		50	33	42	52	0	00	29.26	30.26
13	OVC	065	10.00		30	8	24	39	0	00	29.29	30.32	13	CLR	NC	10.00		56	27	43	33	0	00	29.25	30.24
16	CLR	NC	10.00		34	10	27	37	0	00	29.20	30.23	16	CLR	NC	10.00		55	24	42	30	8	33	29.29	30.28
19	OVC	035	10.00		34	12	27	40	0	00	29.16	30.20	19	CLR	NC	10.00		45	27	38	49	3	04	29.37	30.38
22	OVC	036	10.00		35	15	28	44	0	00	29.10	30.13	22	CLR	NC	10.00		40	27	35	60	6	VR	29.41	30.41
SUNRISE: 0741 DEC 17					SUNSET: 1725					SUNRISE: 0745 DEC 23					SUNSET: 1727										
01	OVC	090	10.00		36	18	30	48	0	00	29.05	30.06	01	CLR	NC	10.00		35	27	32	72	5	06	29.41	30.41
04	OVC	029	10.00		43	27	37	53	7	VR	29.03	30.03	04	CLR	NC	10.00		38	27	34	65	5	VR	29.40	30.40
07	OVC	017	7.00	-RA	40	37	39	89	3	VR	29.02	30.02	07	FEW	120	10.00		38	27	34	65	5	VR	29.41	30.42
10	OVC	005	3.00	BR	44	41	43	89	9	26	29.04	30.04	10	CLR	NC	10.00		44	28	37	53	7	07	29.43	30.44
13	OVC	004	2.00	BR	44	42	43	93	3	VR	29.00	30.00	13	CLR	NC	10.00		53	27	42	37	0	00	29.35	30.35
16	OVC	005	2.00	BR	47	45	46	93	3	22	28.96	29.95	16	CLR	NC	10.00		57	26	44	30	0	00	29.28	30.27
19	OVC	004	4.00	BR	47	45	46	93	5	20	28.93	29.92	19	OVC	110	10.00		52	31	43	45	3	18	29.29	30.29
22	OVC	005	5.00	-RA BR	49	48	48	97	3	25	28.90	29.88	22	CLR	NC	10.00		52	30	42	43	6	26	29.26	30.26
SUNRISE: 0742 DEC 18					SUNSET: 1725					SUNRISE: 0745 DEC 24					SUNSET: 1728										
01	OVC	046	4.00	BR	52	50	51	93	3	20	28.84	29.83	01	SCT	090	10.00		52	31	43	45	3	25	29.23	30.21
04	OVC	027	10.00		69	60	63	73	13	20	28.81	29.77	04	OVC	045	10.00		51	33	43	50	5	25	29.22	30.20
07	OVC	085	9.00	-RA	54	48	51	80			29.00	29.98	07	OVC	055	3.00	-RA BR	47	45	46	93	3	27	29.28	30.27
10	OVC	075	3.00	RA BR	38	35	37	89	5	26	29.24	30.25	10	OVC	027	6.00	-RA BR	48	45	47	89	3	21	29.33	30.32
13	OVC	021	10.00		37	31	35	79	5	VR	29.29	30.29	13	OVC	007	3.00	RA BR	49	47	48	93	0	00	29.30	30.28
16	OVC	042	10.00		34	26	31	73	5	VR	29.38	30.37	16	OVC	009	4.00	-RA BR	50	48	49	93	3	20	29.29	30.27
19	BKN	021	10.00		30	23	28	75	6	VR	29.47	30.47	19	OVC	017	3.00	BR	51	49	50	92	0	00	29.31	30.30
22	OVC	019	10.00		29	21	26	72	7	VR	29.52	30.54	22	OVC	027	1.25	-RA BR	51	49	50	92	0	00	29.33	30.32

OBSERVATIONS AT 3-HOURLY INTERVALS

OAK RIDGE, TN

DECEMBER 2016

KOQT

WBAN # 53868

HOUR (LST)	SKY COVER	CEILING 100's of FT.	VISIBILITY (MILES)	WEATHER	TEMPERATURE °F			RELATIVE HUMIDITY (PCT)	WIND		PRESSURE (INCHES, HG)						
					DRY BULB	DEW POINT	WET BULB		SPEED (MPH)	DIRECTION Tens of Deg	STATION	SEA LEVEL					
SUNRISE: 0745 DEC 25 SUNSET: 1729					01	OVC	011	1.00	BR	51	49	50	92	0	00	29.34	30.32
04	OVC	028	2.00	BR	52	50	51	93	0	00	29.34	30.33					
07	OVC	033	2.50	BR	52	50	51	93	0	00	29.37	30.35					
10	OVC	031	3.00	BR	53	51	52	93	0	00	29.41	30.40					
13	CLR	NC	10.00		63	55	58	76	0	00	29.37	30.35					
16	CLR	NC	10.00		69	55	61	61	3	21	29.34	30.30					
19	OVC	045	10.00		63	57	60	81	0	00	29.37	30.34					
22	BKN	050	10.00		58	56	57	93	0	00	29.37	30.34					
SUNRISE: 0746 DEC 26 SUNSET: 1729					01	VV	002	0.25	FG	52	50	51	93	0	00	29.38	30.35
04	VV	002	0.50	FG	51	49	50	92	0	00	29.40	30.37					
07	OVC	047	5.00	BR	51	50	50	96	0	00	29.41	30.39					
10	OVC	036	10.00		56	53	54	90	0	00	29.44	30.42					
13	OVC	033	10.00		65	55	59	70	0	00	29.38	30.35					
16	OVC	033	10.00		64	55	59	73	5	26	29.34	30.31					
19	OVC	022	10.00		62	55	58	78	5	VR	29.33	30.31					
22	OVC	017	10.00		62	56	59	80	7	26	29.30	30.27					
SUNRISE: 0746 DEC 27 SUNSET: 1730					01	OVC	011	10.00		62	57	59	84	6	27	29.25	30.22
04	OVC	009	10.00		60	56	58	86	7	VR	29.21	30.17					
07	OVC	007	5.00	RA BR	59	57	58	93	8	29	29.19	30.15					
10	OVC	040	10.00		56	52	54	87	0	00	29.25	30.22					
13	OVC	110	10.00		56	50	53	81	3	VR	29.21	30.18					
16	CLR	NC	10.00		58	39	49	50	5	VR	29.19	30.16					
19	CLR	NC	10.00		52	34	44	50	5	26	29.21	30.18					
22	CLR	NC	10.00		43	36	40	76	0	00	29.25	30.23					
SUNRISE: 0746 DEC 28 SUNSET: 1731					01	CLR	NC	10.00		36	33	35	89	0	00	29.25	30.24
04	CLR	NC	10.00		33	30	32	89	0	00	29.26	30.25					
07	CLR	NC	10.00		32	28	30	85	0	00	29.24	30.24					
10	CLR	NC	10.00		40	32	37	73	3	VR	29.26	30.27					
13	CLR	NC	10.00		51	30	42	44	0	00	29.18	30.18					
16	CLR	NC	10.00		57	29	45	34	0	00	29.10	30.10					
19	OVC	085	10.00		52	37	45	57	0	00	29.06	30.06					
22	OVC	095	10.00	-RA	50	38	44	63	3	VR	28.99	29.98					
SUNRISE: 0747 DEC 29 SUNSET: 1731					01	OVC	027	5.00	RA BR	47	44	46	90	3	27	28.90	29.88
04	OVC	055	10.00		51	49	50	92	5	22	28.91	29.88					
07	CLR	NC	10.00		47	38	43	71	5	27	29.02	30.00					
10	CLR	NC	10.00		47	30	40	52	9	28	29.10	30.09					
13	SCT	090	10.00		52	17	39	25	17	28	29.07	30.04					
16	SCT	080	10.00		51	18	38	27	10	30	29.07	30.04					
19	CLR	NC	10.00		46	18	36	32	13	28	29.10	30.10					
22	OVC	070	10.00		43	21	35	42	5	VR	29.15	30.15					
SUNRISE: 0747 DEC 30 SUNSET: 1732					01	CLR	NC	10.00		41	17	32	38	6	27	29.14	30.13
04	FEW	055	10.00		39	15	31	38	11	29	29.18	30.18					
07	CLR	NC	10.00		35	16	29	46	7	VR	29.19	30.19					
10	CLR	NC	10.00		40	14	31	35	6	VR	29.22	30.22					
13	CLR	NC	10.00		44	15	34	31	6	VR	29.22	30.22					
16	CLR	NC	10.00		46	14	35	27	8	27	29.20	30.20					
19	CLR	NC	10.00		37	17	30	44	0	00	29.22	30.24					
22	CLR	NC	10.00		31	20	27	64	0	00	29.21	30.23					

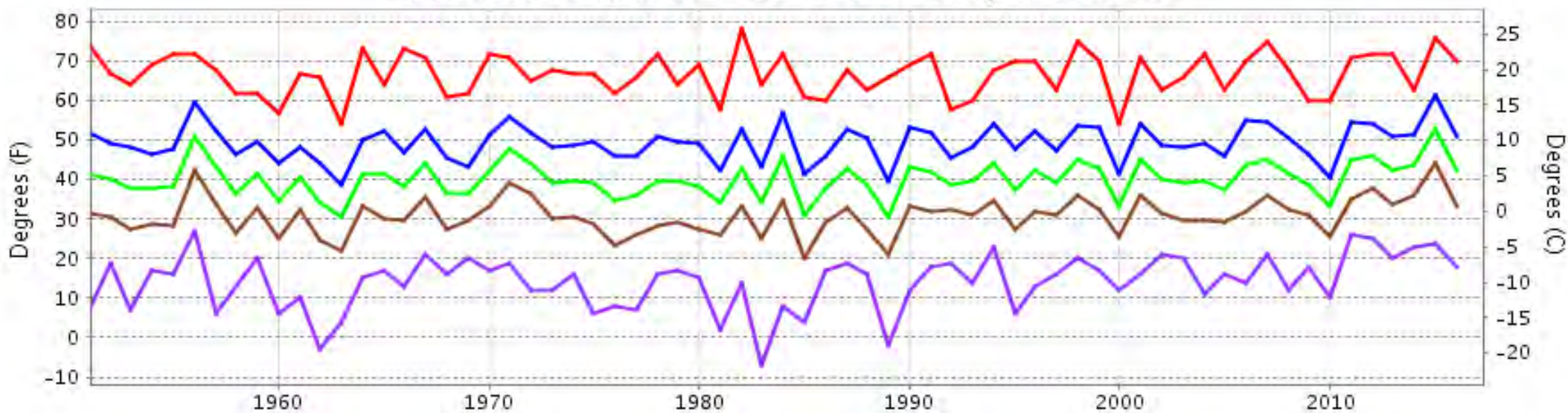
HOUR (LST)	SKY COVER	CEILING 100's of FT.	VISIBILITY (MILES)	WEATHER	TEMPERATURE °F			RELATIVE HUMIDITY (PCT)	WIND		PRESSURE (INCHES, HG)						
					DRY BULB	DEW POINT	WET BULB		SPEED (MPH)	DIRECTION Tens of Deg	STATION	SEA LEVEL					
SUNRISE: 0747 DEC 31 SUNSET: 1733					01	CLR	NC	10.00		29	18	25	63	0	00	29.20	30.22
04	CLR	NC	10.00		28	19	25	69	0	00	29.17	30.19					
07	CLR	NC	10.00		31	19	27	61	0	00	29.17	30.19					
10	BKN	090	10.00		37	20	31	50	5	VR	29.17	30.19					
13	OVC	080	10.00	-RA	42	23	35	47	9	23	29.14	30.16					
16	OVC	060	10.00		44	28	37	53	6	VR	29.07	30.08					
19																	
22	OVC	027	8.00	-RA	39	36	38	89	3	VR	29.07	30.07					

3-HOURLY OBSERVATION NOTES
 Sky Cover is the amount of the sky obscured. CLR or SKC = 0, FEW = 1/8-2/8, SCT = 3/8-4/8, BKN = 5/8-7/8, OVC = 8/8, W = Vertical Visibility = 8/8
 Ceiling is reported in hundreds of feet above ground level for clouds at or below 12,000 feet. NC = No Ceiling detected.
 & = Original observation contained additional weather elements.
 See page 3 for additional notes.

SUMMARY BY HOUR

HOUR (LST)	AVERAGES								RESULTANT WIND (MPH)	
	DRY BULB	DEW POINT	WET BULB	RELATIVE HUMIDITY	PRESSURE (Inches, HG)		VISIBILITY (Miles)	WIND SPEED (MPH)	SPEED	DIRECTION
					STATION	SEA LEVEL				
01	39	32	36	76	29.22	30.22	8.36	2	2	24
02	39	32	36	77	29.22	30.22	8.37	2	3	25
03	40	32	37	76	29.23	30.22	8.76	3	3	25
04	40	32	37	76	29.23	30.22	8.48	3	4	26
05	39	32	37	76	29.22	30.22	8.19	3	4	26
06	38	31	36	77	29.23	30.24	7.72	3	1	24
07	38	31	36	77	29.25	30.25	7.80	3	2	24
08	38	31	35	79	29.26	30.27	7.84	3	1	25
09	39	32	37	76	29.27	30.28	8.01	2	2	13
10	41	32	38	71	29.28	30.29	8.53	3	1	17
11	43	31	39	66	29.29	30.29	8.95	3	1	23
12	45	31	39	62	29.27	30.27	9.03	3	1	23
13	46	31	40	59	29.24	30.24	9.09	4	3	25
14	47	31	41	57	29.22	30.22	8.99	3	2	25
15	48	31	41	55	29.21	30.21	8.90	4	2	26
16	48	30	41	55	29.21	30.21	8.97	4	4	26
17	47	31	41	57	29.22	30.22	8.77	3	2	25
18	45	31	40	60	29.22	30.23	9.31	3	2	26
19	44	32	39	65	29.24	30.24	9.30	2	2	25
20	42	32	38	69	29.23	30.24	8.98	2	1	23
21	42	32	38	70	29.24	30.24	9.01	2	3	23
22	41	32	38	72	29.23	30.24	9.33	2	3	25
23	40	32	37	74	29.24	30.24	8.66	3	3	26
24	40	32	37	76	29.23	30.24	8.49	2	1	24

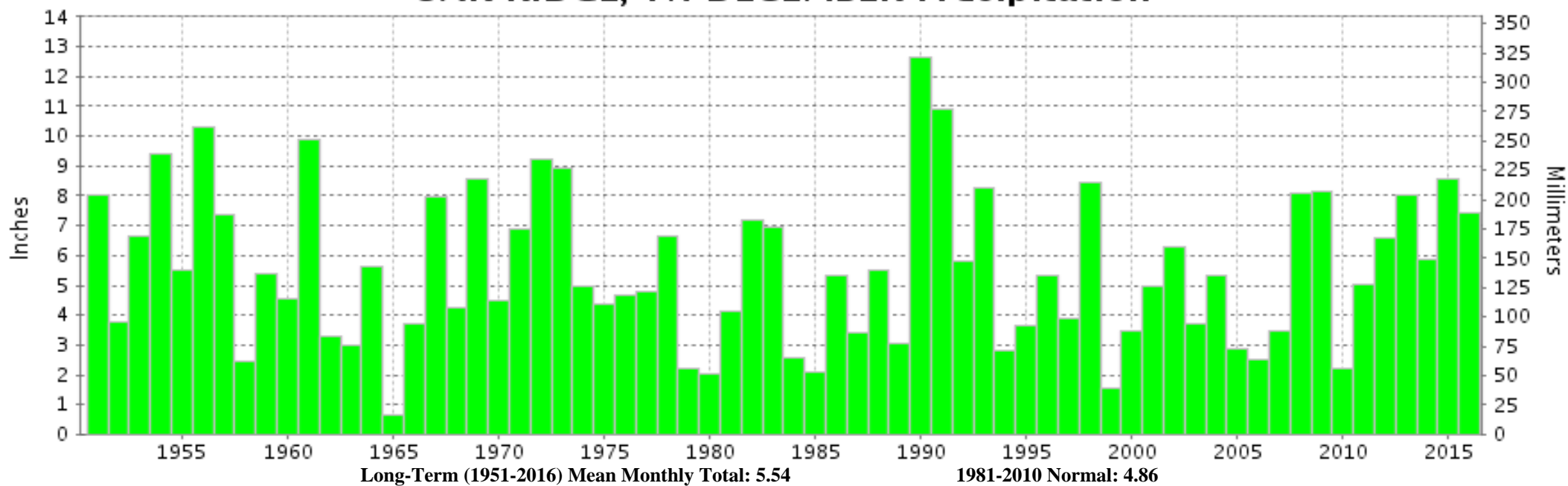
OAK RIDGE, TN DECEMBER Temperatures



— Extreme Max — Mean Max — Mean — Mean Min — Extreme Min

Long-Term (1951-2016) Mean: 40.1
1981-2010 Normal: 40.3

OAK RIDGE, TN DECEMBER Precipitation



Long-Term (1951-2016) Mean Monthly Total: 5.54

1981-2010 Normal: 4.86



DECEMBER 2016

OAK RIDGE, TN

LOCAL CLIMATOLOGICAL DATA

NOAA, National Centers for Environmental Information

I certify that this is an official publication of the National Oceanic and Atmospheric Administration (NOAA). It is compiled using information from weather observing sites operated by NOAA-National Weather Service / Department Of Transportation-Federal Aviation Administration and received at the National Centers for Environmental Information (NCEI), Asheville, North Carolina 28801.

A handwritten signature in black ink that reads "Margarita Jee SS".

DIRECTOR (ACTING)

NCEI now offers free online access to the **Edited Local Climatological Data Publication**. Go to : www.ncdc.noaa.gov and choose Most Popular.

We welcome your questions or comments, please contact us at:
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